

FORM PTO-1449

(Rev 8/83)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Atty. Docket No.:

Appl'n No.:

MP1705-US2

10/017,670

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant:

Hetherton et al.

Filing Date:

12/12/01

Group:

3729

US PATENT DOCUMENTS

Exr. initial	Document number	Date	Name	Class	Sub- class	Filing date (if appropriate)
	2,482,316	9/1949	Bocking	338	328	
	3,221,145	11/1965	Hager, Jr.	219	549	
	3,351,882	11/1967	Kohler et al.	338	322	
	3,435,399	3/1969	Gielisse et al.	338	22 R	
	3,497,859	2/1970	Bang	338	309	
	3,648,364	3/1972	Endo	29	620	
	3,775,725	11/1973	Endo	338	262	
	3,835,434	9/1974	Kahn	338	22 R	
	4,088,828	5/1978	Yamamoto et al	174	68.5	
	4,200,970	5/1980	Schonberger	29	593	
	4,237,441	12/1980	Van Konynenburg et al.	338	22 R	
	4,238,812	12/1980	Middleman et al.	361	106	
	4,255,698	3/1981	Simon	320	35	
	4,272,471	6/1981	Walker	264	104	
	4,304,987	12/1981	Van Konynenburg	219	553	
	4,315,237	2/1982	Middleman et al.	338	22 R	
	4,317,027	2/1982	Middleman et al.	219	553	
	4,327,351	4/1982	Walker	338	22 R	
	4,330,703	5/1982	Horsma et al.	219	553	
	4,352,083	9/1982	Middleman et al.	338	23	
	4,371,860	2/1983	May et al.	338	21	
	4,388,607	6/1983	Toy et al.	338	22 SD	
	4,426,633	1/1984	Taylor	338	25	
	4,434,416	2/1984	Schonberger	338	22R	
	4,445,026	4/1984	Walker	219	553	
	4,463,407	7/1984	Berger et al	361	306	
	4,475,138	10/1984	Middleman et al.	361	58	
	4,486,737	12/1984	Ott	338	22R	
	4,486,738	12/1984	Sadlo et al	338	320	

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4,706,060	11/1987	May	338	20
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4,876,439	10/1989	Nagahori	338	22 R
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4,959,505	9/1990	Ott	174	52.2	
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5,166,658	11/1992	Fang et al.	338	23	
5,194,316	3/1993	Horner et al	428	195	
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5,228,188	7/1993	Badihi et al	29	623	
5,241,741	9/1993	Sugaya	29	612	
5,247,277	9/1993	Fang et al.	338	22 R	
5,258,738	11/1993	Schat	338	332	
5,271,548	12/1993	Maiwald	228	175	
5,280,263	1/1994	Sugaya	338	22 R	
5,291,535	3/1994	Baker et al	378	22	
5,303,115	4/1994	Nayar et al.	361	106	

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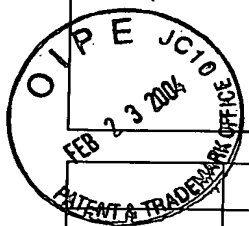
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5,347,258	9/1994	Howard et al	338	333	
5,351,390	10/1994	Yamada et al.	29	612	
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6,020,808	2/2000	Hogge	338	22R	
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initial	Document number	Date	Country	Class	Sub-class	Translation enclosed (?)
	EP 0223404	5/1987	Europe			
	EP 0308306	3/1989	Europe			
	EP 0398811	11/1990	Europe			
	EP 0509582	10/1992	Europe			
	EP 0649562	3/1998	Europe			
	EP 0790625 A2	8/1987	Europe			
	EP 0955643 A	11/1999	Europe			
	DE 2816593	10/1979	Germany			
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	DE 3839868	6/1989	Germany			
	DE 3910861	11/1989	Germany			
	DE 4000089	7/1990	Germany			
	DE 8716103	3/1988	Germany			
	1415454	11/1975	Great Britain			
	WO 84/01259	3/1984	International			
	WO 94/01876	01/1994	International			
	WO 95/08176	03/1995	International			
	WO 95/31816	11/1995	International			
	WO 95/34084	12/1995	International			
	WO 98/12715	3/1998	International			
	WO 98/29879	7/1998	International			
	WO 99/45551	09/1999	International			
	49-28594	8/1974	Japan			
	54-73260	6/1979	Japan			
	56-150802	11/1981	Japan			
	61-124104	6/1986	Japan			
	63-216301	9/1988	Japan			
	63-244702	10/1988	Japan			
	4-15001A	5/1992	Japan			abstract

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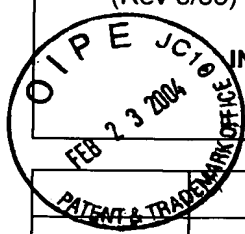
Hetherton et al.

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5-29111	2/1993	Japan			
6-283301	10/1994	Japan			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Exr. initial	Details of Document	Translation enclosed (?)
	Coombs, <u>Printed Circuit Handbook</u> , 1996, p. 24.1 - 24.17, 40.1 - 40.4	
	Harper, <u>Electronic Packaging and Interconnection Handbook</u> (1991), p. 1.37 - 1.43, 8.3 - 8.5, 8.53 - 8.56, 9.1 - 9.16, 9.41 - 9.49.	
	Patent Abstracts of Japan, vol. 013, no. 198 (E-756), 11 May 1989 & JP 01-020601A (JCG Corp.), 24 January 1989, abstract.	
	"PolySwitch PTC Devices", Standard Product List, Raychem Corporation, May 1992.	
	"PolySwitch SMD Installation Guidelines" trade brochure, Raychem Corporation, Nov. 1992.	
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	Standler, <u>Protection of Electronic Circuits from Overvoltages</u> , 1989, p. 133	
	U.S. Patent Application No. 07/893626 (Chandler et al.), filed June 5, 1992.	
	U.S. Patent Application No. 08/816,471 (Chandler et al., filed March 13, 1997); now U.S. 6,570,483.	
	U.S. Patent Application No. 09/060,278 (Chiang et al., filed April 14, 1998); now U.S. 6,606,023.	
	U.S. Patent Application No. 09/181,028 (Graves et al, filed October 27, 1998); now U.S. 6,651,315.	
	U.S. Patent Application No. 09/364,504 (Isozaki et al., filed July 30, 1999); now U.S. 6,358,438.	

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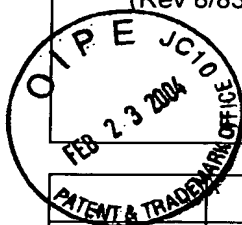
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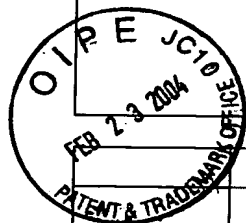
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Atty. Docket No.:

Appl'n No.:

MP1705-US2

10/017,670

Applicant:

Hetherton et al.

Filing Date:

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3729

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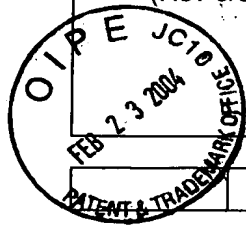
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